

SYMBOL LEGEND:

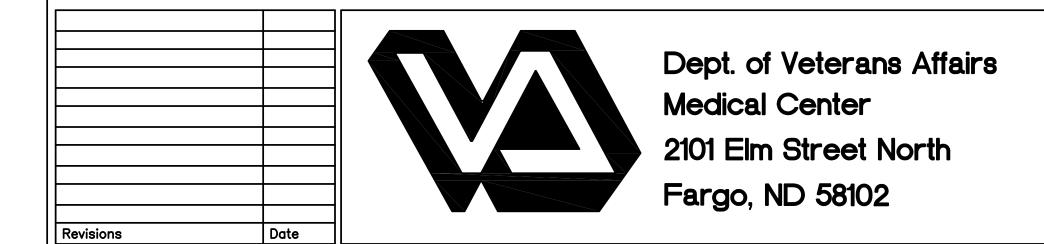
O I WID O L			
	EXISTING MANHOLE	8	EXISTING OUTLET POST
	EXISTING STORM INLET	⊚	EXISTING GUARD POST
0	EXISTING STORM CLEANOUT	Q	EXISTING FLAG POLE
\$	EXISTING SANITARY CLEANOUT	——— UGP ———	EXISTING UNDERGROUND POWER LINE
E	EXISTING ELECTRIC MANHOLE	S	EXISTING SANITARY SEWER LINE
\boxtimes	EXISTING GATE VALVE	IRR	EXISTING IRRIGATION LINE
\searrow	EXISTING FIRE HYDRANT	STS	EXISTING STORM SEWER LINE
\	EXISTING LIGHT POLE		EXISTING WATERMAIN LINE
	EXISTING TRANSFORMER		EXISTING CHILLED WATER LINE
	EMETING THURST GRANER	——— G ———	EXISTING GAS LINE
	EXISTING TREE	UGT	EXISTING UNDERGROUND TELEPHONE LINE
	EVICTING TREE	OHP	EXISTING OVERHEAD POWER LINE
	EXISTING TREE	TV	EXISTING UNDERGROUND TELEVISION
	EXISTING SHRUB	——— FO ———	EXISTING UNDERGROUND FIBER OPTIC
Ø ^{PP}	EXISTING POWER POLE	X	EXISTING CHAIN LINK FENCE
⊘ PPR	EXISTING POWER POLE WITH RISER		REMOVE EXISTING CONCRETE PAVEMENT
\cup	EXISTING POWER POLE ANCHOR		REMOVE EXISTING ASPHALT PAVEMENT
ПР	EXISTING TELEPHONE PEDESTAL		REMOVE EXISTING CONCRETE CURB & GUTTER
□TV	EXISTING TELEVISION PEDESTAL	'//// \$ T\$ /////	REMOVE EXISTING STORM SEWER LINE
	EXISTING STREET SIGN	\bowtie	REMOVE EXISTING MANHOLE
⊗ ICV	EXISTING WATER SERVICE VALVE		DEMONE EVICTING CTODA IN ET
			REMOVE EXISTING STORM INLET
		*()	REMOVE EXISTING TREE

PLAN NOTES:

- CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
- 2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
- 3. ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO REMOVAL.
- 4. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- 5. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- 6. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
- 7. CONTRACTOR SHALL MAINTAIN 7.5' BURY DEPTH OVER ALL NEW WATERMAIN.
- 8. CONTRACTOR SHALL PROTECT THE EXISTING WATERMAIN AND ENSURE THAT VA MEDICAL CAMPUS HAS NO DISRUPTION OF SERVICE. NEW WATERMAIN SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY DISCONNECTION OF EXISTING WATER SERVICE. COORDINATE ANY REQUIRED LOSS OF SERVICE WITH VA ADMINISTRATION PRIOR TO WORK.
- 9. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A TEMPORARY WATER SERVICE TO THE AFFECTED VA BUILDINGS. THE METHOD OF PROVIDING THE TEMPORARY WATER SERVICE SHALL BE AN OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER. ALL TEMPORARY WATER MAINS AND SERVICES SHALL BE DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ONE WATER SAMPLE PER SERVICE CONNECTION WILL BE TAKEN AFTER THE TEMPORARY WATER LINE IS FLUSHED. THE SAMPLE SHALL SHOW THE ABSENCE OF BACTERIA BEFORE CONNECTIONS ARE ALLOWED.
- 10. THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN UNINTERRUPTED SEWER SERVICE ON SEWER RECONSTRUCTION WHERE WORK WILL INTERFERE WITH SEWAGE FLOW IN THE EXISTING SEWER. THE BYPASS SHALL BE MADE BY DIVERTING THE EFFLUENT FLOW AT AN UPSTREAM ACCESS MANHOLE AND PUMPING IT THROUGH A SEPARATE CONDUIT TO A DOWNSTREAM REENTRY POINT OR TO AN ADJACENT SEWER SYSTEM. THE PUMP AND BYPASS CONDUIT SHALL BE OF ADEQUATE SIZE AND CAPACITY TO HANDLE THE FLOW. THE EFFLUENT LEVEL IN THE BYPASS PUMPING MANHOLE SHALL NOT BE ALLOWED TO RISE MORE THAN 1 FOOT ABOVE THE CROWN OF THE INCOMING SEWER PIPE. BYPASS PUMPING SHALL BE INCIDENTAL TO THE SEWER WORK.
- 11. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
- 12. CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITIES THAT CONFLICT WITH THE INSTALLATION OF THE NEW SANITARY SEWER, STORM SEWER, AND WATERMAIN. ADDITIONAL WORK AND MATERIALS SHALL BE INSTALLED AT NO COST TO THE PROJECT.
- 13. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

BENCHMARKS:

- 1. BM #1: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF ELM STREET & 21ST AVENUE NORTH. ELEVATION = 902.46 (NAVD 88)
- 2. BM#2: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE SOUTH PARKING LOT. ELEVATION = 891.74 (NAVD 88)











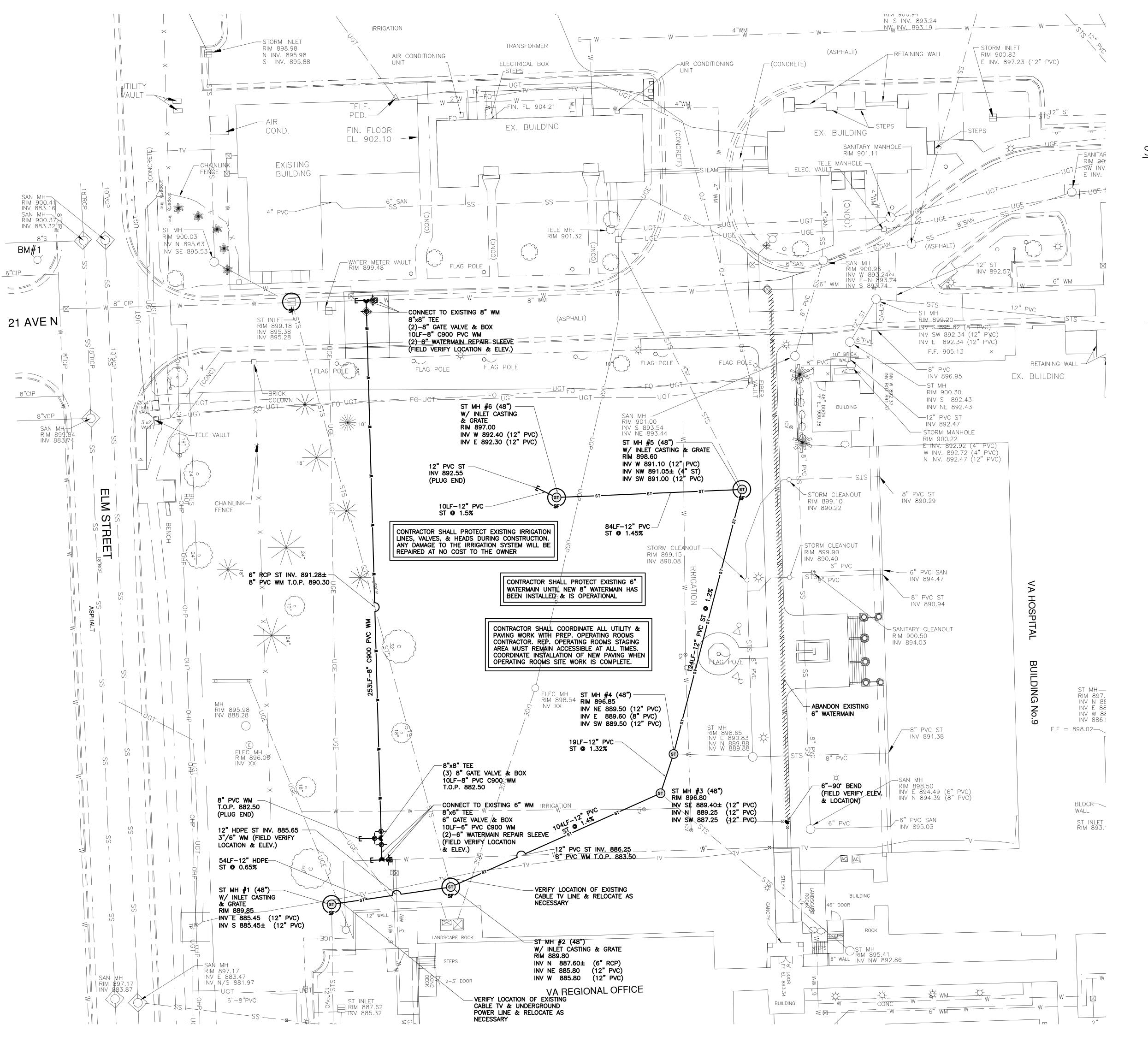
	PHASE 1 - DEMOLITION PLAN		Project Title VA MEDICAL CENTER REPLACE UTILITY MAINS AND ASPHALT			Date MAY 17, 2012	
						SCALE AS NOTED	
	VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked By JM	Drawn By TE	Drawing No.	

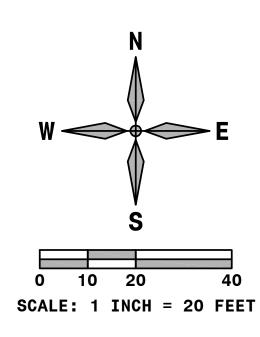
VA MEDICAL CENTER FARGO, ND

AutoCAD File Name 11-110 C1.1.DWG

SITE

Dwg. 3 of 45





SYMBOL LEGEND:

	EXISTING	MANHOLE	——— UGP ———
	EXISTING	STORM INLET	s
0	EXISTING	STORM CLEANOUT	IRR
S	EXISTING	SANITARY CLEANOUT	STS
E	EXISTING	ELECTRIC MANHOLE	W
	EXISTING	GATE VALVE	CW
\bigvee	EXISTING	FIRE HYDRANT	G
*	EXISTING	LIGHT POLE	———UGT——
	EXISTING	TRANSFORMER	——————————————————————————————————————
	EVICTING	TOES	TV
	EXISTING	IKEE	——— FO ———
*	EXISTING	TREE	×
		··· ·	-® -
	EXISTING	SHRUB	(ST)
Ø ^{PP}	EXISTING	POWER POLE	w
⊘PPR	EXISTING	POWER POLE WITH RISER	——st——
\circ	EXISTING	POWER POLE ANCHOR	4444
_D TP	EXISTING	TELEPHONE PEDESTAL	
\Box^{TV}	EXISTING	TELEVISION PEDESTAL	
<u> </u>	EXISTING	STREET SIGN	
ICV ⊗	EXISTING	WATER SERVICE VALVE	

EXISTING UNDERGROUND POWER LINE EXISTING SANITARY SEWER LINE EXISTING IRRIGATION LINE EXISTING STORM SEWER LINE EXISTING WATERMAIN LINE EXISTING CHILLED WATER LINE EXISTING GAS LINE EXISTING UNDERGROUND TELEPHONE LINE EXISTING OVERHEAD POWER LINE EXISTING UNDERGROUND TELEVISION EXISTING UNDERGROUND FIBER OPTIC EXISTING CHAIN LINK FENCE NEW GATE VALVE NEW STORM MANHOLE NEW WATERMAIN LINE NEW STORM SEWER LINE

ABANDONED WATERMAIN LINE

NEW INLET PROTECTION

PLAN NOTES:

EXISTING OUTLET POST

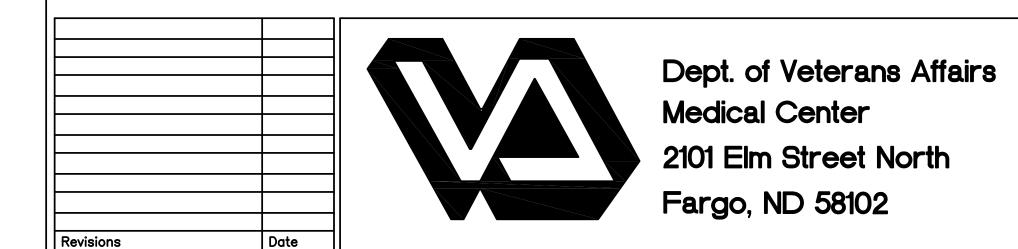
EXISTING GUARD POST

EXISTING FLAG POLE

- 1. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
- 2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
- 3. ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO REMOVAL.
- 4. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- 5. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- 6. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
- 7. CONTRACTOR SHALL MAINTAIN 7.5' BURY DEPTH OVER ALL NEW WATERMAIN.
- 8. CONTRACTOR SHALL PROTECT THE EXISTING WATERMAIN AND ENSURE THAT VA MEDICAL CAMPUS HAS NO DISRUPTION OF SERVICE. NEW WATERMAIN SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY DISCONNECTION OF EXISTING WATER SERVICE. COORDINATE ANY REQUIRED LOSS OF SERVICE WITH VA ADMINISTRATION PRIOR TO WORK.
- 9. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A TEMPORARY WATER SERVICE TO THE AFFECTED VA BUILDINGS. THE METHOD OF PROVIDING THE TEMPORARY WATER SERVICE SHALL BE AN OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER ALL TEMPORARY WATER MAINS AND SERVICES SHALL BE DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ONE WATER SAMPLE PER SERVICE CONNECTION WILL BE TAKEN AFTER THE TEMPORARY WATER LINE IS FLUSHED. THE SAMPLE SHALL SHOW THE ABSENCE OF BACTERIA BEFORE CONNECTIONS ARE ALLOWED.
- 10. THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN UNINTERRUPTED SEWER SERVICE ON SEWER RECONSTRUCTION WHERE WORK WILL INTERFERE WITH SEWAGE FLOW IN THE EXISTING SEWER. THE BYPASS SHALL BE MADE BY DIVERTING THE EFFLUENT FLOW AT AN UPSTREAM ACCESS MANHOLE AND PUMPING IT THROUGH A SEPARATE CONDUIT TO A DOWNSTREAM REENTRY POINT OR TO AN ADJACENT SEWER SYSTEM. THE PUMP AND BYPASS CONDUIT SHALL BE OF ADEQUATE SIZE AND CAPACITY TO HANDLE THE FLOW. THE EFFLUENT LEVEL IN THE BYPASS PUMPING MANHOLE SHALL NOT BE ALLOWED TO RISE MORE THAN 1 FOOT ABOVE THE CROWN OF THE INCOMING SEWER PIPE. BYPASS PUMPING SHALL BE INCIDENTAL TO THE SEWER WORK.
- 11. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS. CONTRACTOR.
- 12. CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITIES THAT CONFLICT WITH THE INSTALLATION OF THE NEW SANITARY SEWER, STORM SEWER, AND WATERMAIN. ADDITIONAL WORK AND MATERIALS SHALL BE INSTALLED AT NO COST TO THE PROJECT.
- 13. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

BENCHMARKS:

- 1. BM #1: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF ELM STREET & 21ST AVENUE NORTH. ELEVATION = 902.46 (NAVD 88)
- 2. BM#2: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE SOUTH PARKING LOT. ELEVATION = 891.74 (NAVD 88)











Drawing Title	Project Title	Project Title		
PHASE 1 - EROSION C	VA MEDICA REPLACE UTILITY M			
VA Project No. 437–11–156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked	

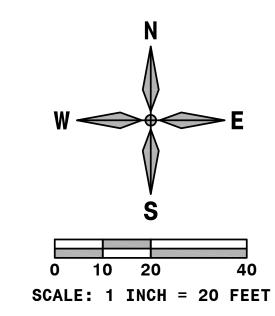
AutoCAD File Name

SITE

11-110 C1.2.DWG

MAY 17, 2012 CAL CENTER
' MAINS AND ASPHALT | SCALE AS NOTED Drawn By TE VA MEDICAL CENTER FARGO, ND Dwg. 4 of 45





SYMBOL LEGEND:

	EXISTING MANHOLE	ICV ⊗	EXISTING WATER SERVICE VALVE
	EXISTING STORM INLET	8	EXISTING OUTLET POST
0	EXISTING STORM CLEANOUT	©	EXISTING GUARD POST
\$	EXISTING SANITARY CLEANOUT	0	EXISTING FLAG POLE
E	EXISTING ELECTRIC MANHOLE	X	EXISTING CHAIN LINK FENCE
\boxtimes	EXISTING GATE VALVE	+320.52	EXISTING SPOT ELEVATION
$\overline{}$	EXISTING FIRE HYDRANT	+ %	
*	EXISTING LIGHT POLE		EXISTING CONTOUR
			NEW GATE VALVE
	EXISTING TRANSFORMER	(ST)	NEW STORM MANHOLE
)	EXISTING TREE	× 899.15RIM	NEW RIM ELEVATION
-	EXISTING TREE	× 895.65SW	NEW SIDEWALK ELEVATION
	EVICTIMO CURUD	× 898.00FG	NEW FINISHED GRADE ELEVATION
	EXISTING SHRUB	<u>M.E.</u>	MATCH EXISTING ELEVATION
⊘ ^{PP}	EXISTING POWER POLE	1.0%	NEW SLOPE & DIRECTION OF FLOW
PPR ⊘	EXISTING POWER POLE WITH RISER		
\cup	EXISTING POWER POLE ANCHOR		NEW CONTOUR
ПТР	EXISTING TELEPHONE PEDESTAL		

EXISTING TELEVISION PEDESTAL

EXISTING STREET SIGN

- CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
- 2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
- 3. ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO
- 4. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- 5. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN
- 6. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
- 7. CONTRACTOR SHALL MAINTAIN 7.5' BURY DEPTH OVER ALL NEW WATERMAIN.
- 8. CONTRACTOR SHALL PROTECT THE EXISTING WATERMAIN AND ENSURE THAT VA MEDICAL CAMPUS HAS NO DISRUPTION OF SERVICE. NEW WATERMAIN SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY DISCONNECTION OF EXISTING WATER SERVICE. COORDINATE ANY REQUIRED LOSS OF SERVICE WITH VA ADMINISTRATION PRIOR TO WORK.
- 9. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A TEMPORARY WATER SERVICE TO THE AFFECTED VA BUILDINGS. THE METHOD OF PROVIDING THE TEMPORARY WATER SERVICE SHALL BE AN OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER. ALL TEMPORARY WATER MAINS AND SERVICES SHALL BE DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ONE WATER SAMPLE PER SERVICE CONNECTION WILL BE TAKEN AFTER THE TEMPORARY WATER LINE IS FLUSHED. THE SAMPLE SHALL SHOW THE ABSENCE OF BACTERIA BEFORE CONNECTIONS ARE ALLOWED.
- 10. THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN UNINTERRUPTED SEWER SERVICE ON SEWER RECONSTRUCTION WHERE WORK WILL INTERFERE WITH SEWAGE FLOW IN THE EXISTING SEWER. THE BYPASS SHALL BE MADE BY DIVERTING THE EFFLUENT FLOW AT AN UPSTREAM ACCESS MANHOLE AND PUMPING IT THROUGH A SEPARATE CONDUIT TO A DOWNSTREAM REENTRY POINT OR TO AN ADJACENT SEWER SYSTEM. THE PUMP AND BYPASS CONDUIT SHALL BE OF ADEQUATE SIZE AND CAPACITY TO HANDLE THE FLOW. THE EFFLUENT LEVEL IN THE BYPASS PUMPING MANHOLE SHALL NOT BE ALLOWED TO RISE MORE THAN 1 FOOT ABOVE THE CROWN OF THE INCOMING SEWER PIPE. BYPASS PUMPING SHALL BE INCIDENTAL TO THE SEWER WORK.
- 11. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
- 12. CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITIES THAT CONFLICT WITH THE INSTALLATION OF THE NEW SANITARY SEWER, STORM SEWER, AND WATERMAIN. ADDITIONAL WORK AND MATERIALS SHALL BE INSTALLED AT NO COST TO THE PROJECT.
- 13. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

BENCHMARKS:

- BM #1: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF ELM STREET & 21ST AVENUE NORTH. ELEVATION = 902.46 (NAVD 88)
- 2. BM#2: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE SOUTH PARKING LOT. ELEVATION = 891.74 (NAVD 88)

VA MEDICAL CENTER FARGO, ND

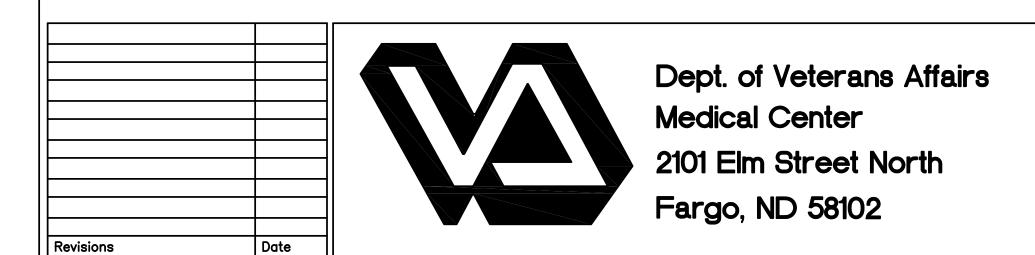




IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Civil Engineers





	PHASE 1 - GRADING PLAN		Project Title			
			VA MEDICAL CENTER			
			REPLACE UTILITY MAINS AND ASPHALT			SCA
	VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked By JM	Drawn By	Dr

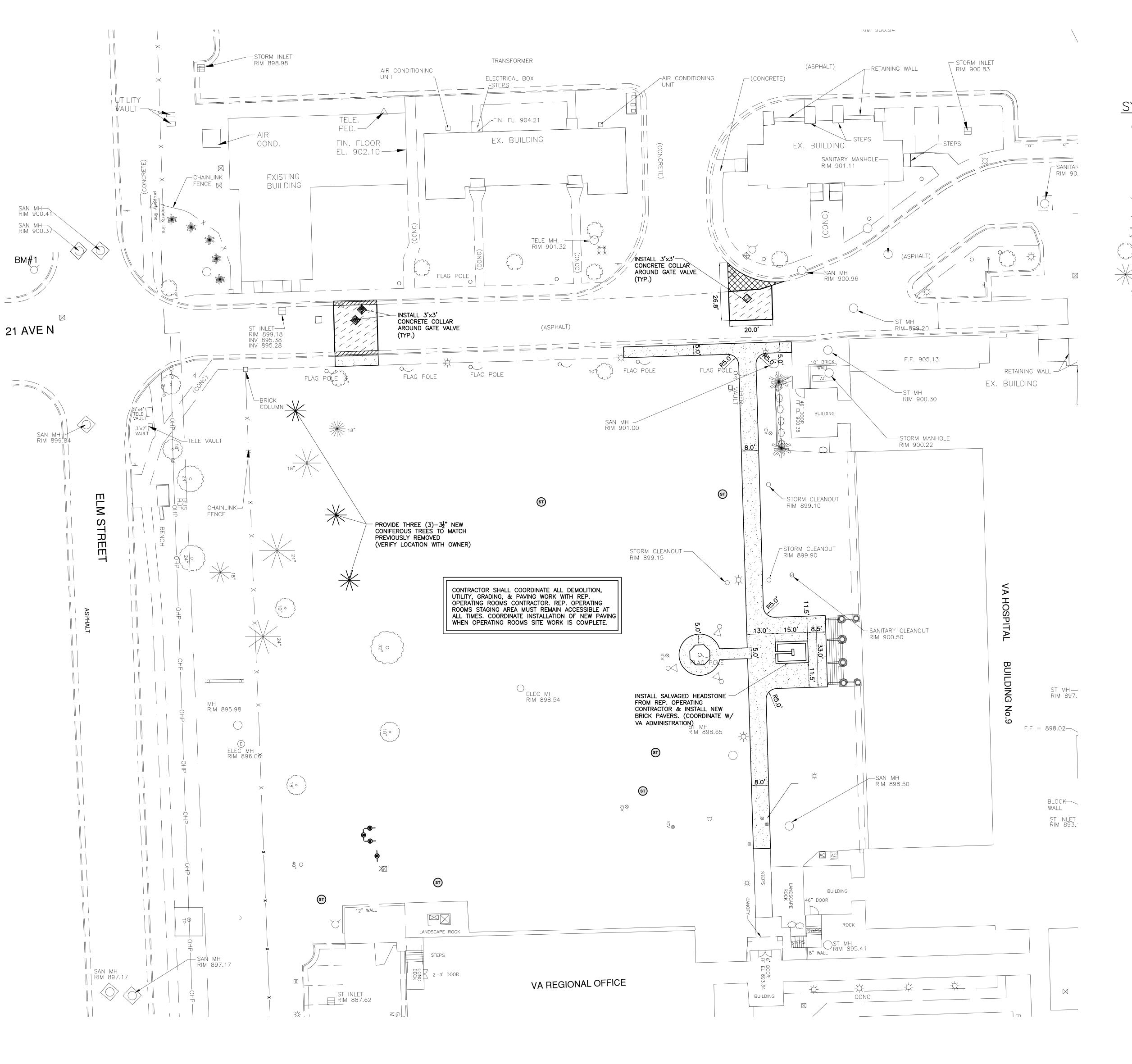
AutoCAD File Name 11-110 C1.3.DWG

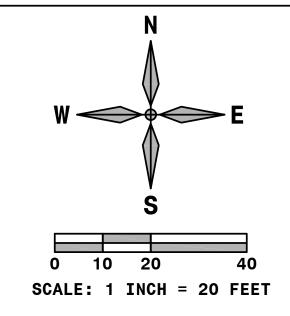
SITE

MAY 17, 2012

AS NOTED

Dwg. 5 of 45





EXISTING MANHOLE

SYMBOL LEGEND:

	EXISTING STORM INLET	□ТР	EXISTING TELEPHONE PEDESTAL
0	EXISTING STORM CLEANOUT	□TV	EXISTING TELEVISION PEDESTAL
S	EXISTING SANITARY CLEANOUT	<u> </u>	EXISTING STREET SIGN
E	EXISTING ELECTRIC MANHOLE	ICV ⊗	EXISTING WATER SERVICE VALVE
	EXISTING GATE VALVE	8	EXISTING OUTLET POST
\bigvee	EXISTING FIRE HYDRANT	©	EXISTING GUARD POST
*	EXISTING LIGHT POLE	0	EXISTING FLAG POLE
	EXISTING TRANSFORMER	X	EXISTING CHAIN LINK FENCE
n			NEW GATE VALVE
,) {	EXISTING TREE	ST	NEW STORM MANHOLE
*	EXISTING TREE		NEW 4" REINFORCED CONCRETE SIDEWALK
	EXISTING SHRUB		NEW 6" CONCRETE PAVEMENT
⊘ ^{PP}	EXISTING POWER POLE	(///)	NEW 9" ASPHALT PAVEMENT
⊘ PPR	EXISTING POWER POLE WITH RISER		NEW TYPE 1 MOUNTABLE CURB & GUTTER

EXISTING POWER POLE ANCHOR

NEW CONIFEROUS TREE

REMOVAL.

- 1. CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. NORTH DAKOTA ONE CALL WILL ONLY LOCATE THEIR MAINS AND WILL NOT LOCATE PRIVATE UTILITIES ON THIS SITE. THE VA IS NOT RESPONSIBLE FOR LOCATING ANY ON SITE UTILITIES.
- 2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING/PROPOSED UTILITY CROSSINGS, AND WHERE EXISTING UTILITIES CONNECT INTO NEW UTILITY MAINS.
- 3. ALL PAVEMENT MARKED FOR DEMOLITION SHALL BE FULL DEPTH SAW CUT PRIOR TO
- 4. CONTRACTOR SHALL KEEP ACCESS OPEN TO ALL EXISTING DOORS, FIRE EXITS, AND LOADING DOCKS DURING ALL PHASES OF CONSTRUCTION. IF TEMPORARY CLOSURES ARE REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- 5. CONTRACTOR IS REQUIRED TO MAINTAIN ONE DRIVING LANE OPEN AT ALL TIMES. IF ROAD CLOSURE IS REQUIRED, COORDINATE WITH VA ADMINISTRATION A MINIMUM OF 2 WEEKS IN ADVANCE.
- 6. CONTRACTOR IS RESPONSIBLE FOR GENERAL TRAFFIC CONTROL TO ALLOW FOR PUBLIC ACCESS THROUGH THE PROJECT SITE. CONTRACTOR SHALL PROVIDE ADEQUATE SIGNS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. CONTRACTOR IS RESPONSIBLE TO KEEP ACCESS TO THE EAST & NORTH LOADING DOCK OPEN FOR DAILY DELIVERIES & COORDINATE ANY RESTRICTIONS WITH THE VA ADMINISTRATION.
- 7. CONTRACTOR SHALL MAINTAIN 7.5' BURY DEPTH OVER ALL NEW WATERMAIN.
- 8. CONTRACTOR SHALL PROTECT THE EXISTING WATERMAIN AND ENSURE THAT VA MEDICAL CAMPUS HAS NO DISRUPTION OF SERVICE. NEW WATERMAIN SHALL BE INSTALLED AND OPERATIONAL BEFORE ANY DISCONNECTION OF EXISTING WATER SERVICE. COORDINATE ANY REQUIRED LOSS OF SERVICE WITH VA ADMINISTRATION PRIOR TO WORK.
- 9. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A TEMPORARY WATER SERVICE TO THE AFFECTED VA BUILDINGS. THE METHOD OF PROVIDING THE TEMPORARY WATER SERVICE SHALL BE AN OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ENGINEER. ALL TEMPORARY WATER MAINS AND SERVICES SHALL BE DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS. ONE WATER SAMPLE PER SERVICE CONNECTION WILL BE TAKEN AFTER THE TEMPORARY WATER LINE IS FLUSHED. THE SAMPLE SHALL SHOW THE ABSENCE OF BACTERIA BEFORE CONNECTIONS ARE ALLOWED.
- 10. THE CONTRACTOR SHALL INSTALL A TEMPORARY BYPASS TO MAINTAIN UNINTERRUPTED SEWER SERVICE ON SEWER RECONSTRUCTION WHERE WORK WILL INTERFERE WITH SEWAGE FLOW IN THE EXISTING SEWER. THE BYPASS SHALL BE MADE BY DIVERTING THE EFFLUENT FLOW AT AN UPSTREAM ACCESS MANHOLE AND PUMPING IT THROUGH A SEPARATE CONDUIT TO A DOWNSTREAM REENTRY POINT OR TO AN ADJACENT SEWER SYSTEM. THE PUMP AND BYPASS CONDUIT SHALL BE OF ADEQUATE SIZE AND CAPACITY TO HANDLE THE FLOW. THE EFFLUENT LEVEL IN THE BYPASS PUMPING MANHOLE SHALL NOT BE ALLOWED TO RISE MORE THAN 1 FOOT ABOVE THE CROWN OF THE INCOMING SEWER PIPE. BYPASS PUMPING SHALL BE INCIDENTAL TO THE SEWER WORK.
- 11. CONTRACTOR SHALL PROVIDE AND INSTALL ANY ADDITIONAL FITTINGS, PIPING, AND OFFSETS TO ACCOUNT FOR UTILITY LOCATIONS AND CROSSINGS NOT INDICATED ON THE PLANS.
- 12. CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITIES THAT CONFLICT WITH THE INSTALLATION OF THE NEW SANITARY SEWER, STORM SEWER, AND WATERMAIN. ADDITIONAL WORK AND MATERIALS SHALL BE INSTALLED AT NO COST TO THE PROJECT.
- 13. ALL GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL HAVE TOPSOIL (6" DEPTH), GRADED, SEEDED, AND HYDRO-MULCHED.

BENCHMARKS:

- 1. BM #1: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF ELM STREET & 21ST AVENUE NORTH. ELEVATION = 902.46 (NAVD 88)
- 2. BM#2: THE SOUTHEAST FLANGE BOLT OF THE FIRE HYDRANT LOCATED IN THE SOUTH PARKING LOT. ELEVATION = 891.74 (NAVD 88)

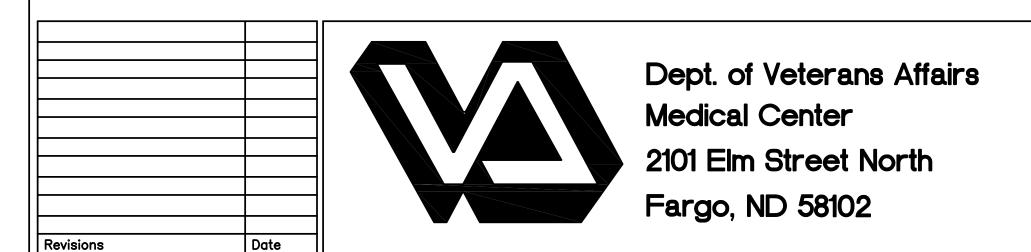




IMAGE GROUP INC., Architecture & Interiors MBN ENGINEERING, Civil Engineers



	ROFESSI.	William .
TEAUN.	THONY H	
888888 8190	PE-6864	7.12
4	PE-6864 DATE S ORTH DAKO	SHIFT

Drawing Title	Project Title	Project Title			
PHASE 1 - F	∥ va	M/			
	VA MEDICAL CENTER REPLACE UTILITY MAINS AND ASPHALT			SCALE A	
VA Project No. 437-11-156	Contract No. VA263-P-1217 VA263-C-	Designed By	Checked By JM	Drawn By	Drawing

Location

VA MEDICAL CENTER FARGO, ND

AutoCAD File Name 11-110 C1.4.DWG

SITE

MAY 17, 2012 **AS NOTED** ng No. C_{1.4} Dwg. 6 of 45